company's holdings was made by one

of its engineers, E. P. Jennings, some-

submitted under the date of Dec. 28, 1906, he estimated that that portion of

exceeded the expectations of every of-

ficial of the organization. The old levels have been extended, new ones have been established and thereby the

available tonnage of high, as well as low-grade ore, has been materially increased. It was recently determined to sink the main working shaft another

200 feet, and this work has been un-

dertaken. It is to be let down to the

That reduction works will be built for the treatment of Nevada-Douglas

The metallurgical features

thed best adapted for the suces all treatment of the ore; costs of

ores on the ground is a foregone con-

have been carefully looked into, and

the management is in possession of all the necessary information relative to

naterial, equipment, construction, etc. The Nevada-Douglas company owns

me of the best smelter sites in the west, together with valuable water rights, and there is a probability that this site will soon be utilized. Smith

valley, just below the Nevada-Douglas mine, is an ideal spot for works of this kind, being so far removed from the

agricultural districts that there would

never be a recurrence of the experiences of the smelting concerns in the Salt Lake valley, some of which have

been forced to close down because of

court decisions favorable to the farm-

ers. Indeed, that portion of Nevada in the vicinity of the Nevada-Douglas mine is one of the best locations in Ne-

vada for a large smelting enterprise, something that is needed and almost

demanded by the mine operators of western and southern Nevada. Yering-

ton would be a central point and readily accessible from camps north and

south. The nearest railroad point at

the present time is Wabuska, on the main line of the Nevada & California railroad, which is a part of the Harri-

850 level.

NEVADA-DOUGLAS COPPER COMPANY

Nevada-Douglas now occupies the unique position of being the leading producing copper mine of Nevada. Oth-er copper properties in that state pos-sess great merit, but this one shines forth among them all as being destined, within a very short time, to become one of the ranking copper mines of the United States. This much was predicted by the writer more than a ear ago, and not the slightest thing has happened to furnish ground for a modification of this opinion. On the contrary, the result of the past year's development work has only strengthened the conviction that Nevada-Douglas is entitled to a position near the head of the list.

There is no better way to tell the story than glance at the shipment records. These speak for themselves, and anyone familiar with mining affairs will readily observe that there are very few mines, anywhere in the world that can make a better showing, grade of ores considered. The company has made no attempt at getting out ton-rage and shipping it to the smelter for treatment. It has been the policy of the present management to develop the mine; to prepare it for a greater campaign in the future, and for that reaon only such ore as has been encountered in the natural course of development has been sent to the furnaces. Not a ton has been broken down in the stopes and forwarded to the furnaces. Thirty cars, or an average of six a month, were sent out during the five months ending on the 15th inst., and the net profits to the company ran better than \$1,000 a earload. The product came principally from the Ludwig division of the property, which was purchased during the present year and added to the holdings of the corporaticn. In addition to the thirty cars mentioned, was one lot of copper precipitates running 72 per cent.

Owing to the fact that shipments have been made to smelting plants situated at a considerable distance from the mine, no attempt has been made to extract ores containing less than 10 per cent copper. Ordinarily, 10 per cent copper ore would be considered highgrade and, with facilities for treat- 14 ment near at hand, it is. In the Nevada-Douglas mine are many millions of tons of ore containing from 3 to 10 per cent copper, hence it is not a difficult matter to figure cut what possi- 20 bilities the future has in store for this 2 great mine, when the company shall 22 have installed its own smelting equip-

Thus steadily the Nevada-Douglas is 26 making its way to fame upon its merit. 27 The officials of the company have rea- 28 son to be proud of the record made, and they are enthusiastic in anticipation of the greater things promised for

Nevada-Douglas was launched with sition the view of making it a great mining and a enterprise, and one guarantee of the fore the public by the well known firm of A. J. Orem & Co. of 60 State street, Boston, and Auerbach block, Salt Lake City. The success of the Nevada-Douglas enterprise will go down in his-so sa tory as one of the crowning achieve-ments of the house of Orem. Through perma their energy the Nevada-Douglas mine lation of smod has become one of the best known equipment with properties in the country, and Orem's upon an extens Weekly Bulletin, a publi to all who are interested in min- an option on the ing, has done much to advertise the tained by A. J mineral resources of the state situated signed to the M between California and Utah.

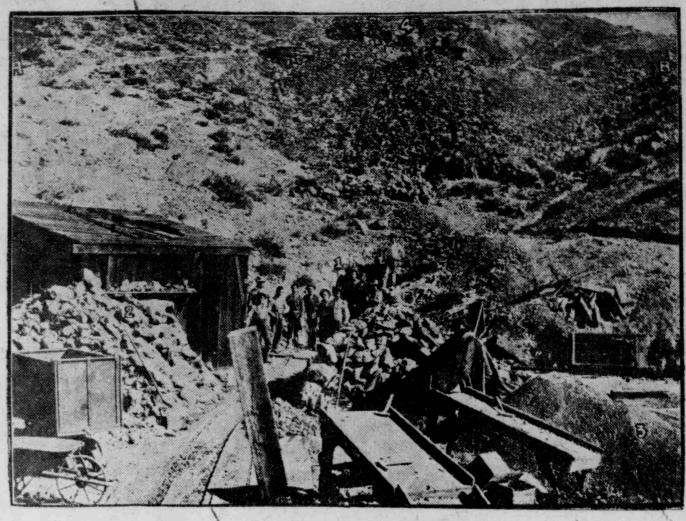
Property Divided.

Table No. 2.

PEYTON CHEMICAL COMPANY.

The Nevada-Douglas company's prop- producing mine to the group, and be erties are divided into two divisions sides gave the corporation posse for the sake of convenience. That portion designated as the main division, in a mineral way on the western slop consists of twenty-nine lode claims, of the Walker River range of mour and from which 1,160 tons of ore were tains. The formal transfer of the Lud shipped in the early part of 1906. The product was obtained from the Doug-been done in the shape of ore shiples claim proper where the chief delas claim proper, where the chief de- ments from the Ludwig division velopment has been centered. The par- shown in the following transcript ticular place from which the ore was smelter returns and designated as to obtained was given the name of ble No. 2. "Jewel Box," and in this same box is estimated to be a million dollars' worth of ore in sight and available. But the shipments made in the early part of last year averaged better than 14 per cent copper, and the accompanying list, designated as table No. 1,

Shi		Per	μE	Net	Tot
Shipment No		cent Copper	Weight Ore	Price per Ton.	al
1	**************	. 15.43		\$31.55	
2	***************************************	. 15.65	68,271 51,758	38.81	1,085.85 890.50
4	***************************************	14.00	53,632	27.70	742.80
5	***************************************	. 13.16	47.707	25.68	612.56
6	*****************	. 14.38	48,000	30.13	732.12
7	***************************************	. 12.22	67,946	22.98	780.70
8		. 12.26	79,668	23.03	917.38
9	**************	. 13.11	84,480	25.03	1,044.75
10	*************	, 12.49	83,964	24.39	1,023.94
11		. 12.68	83,873	24.02	1,008.31



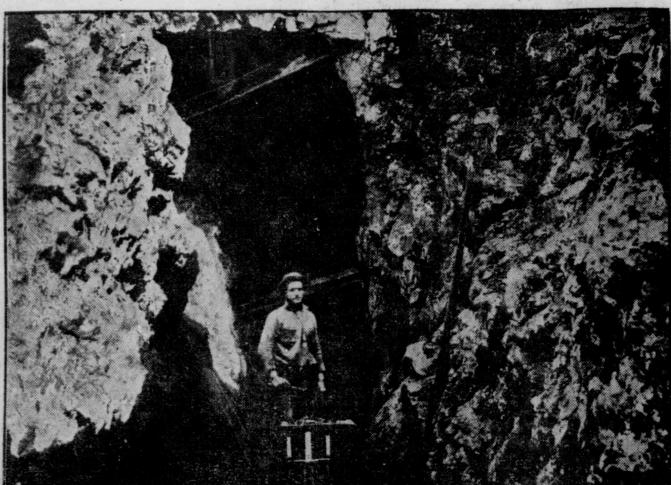
Douglas Hill of the Nevada Douglas Copper Mining Company. Entire photograph represents exposure of copper ore. No. 1-Miller tunnel. No. 2-Ore for shipment, average 13 per cent copper. No. 3.—Screenings, 8 per cent. No. 4-Twenty feet wide, 7.22 per cent copper. From A to B, 309 feet, general average 6 inch trench 2 per cent copper.

rage 6 inch trench 2 per cent copper.	A STATE OF THE STA			Laboration of the Contract of						3
	July 23115,005	23.4. 22.06	61.75	3,551.31	GARE	TELD	SMEL	TING C	COMPA	NY.
13.57 85.828 25.88 1,110.03 12.67 87,711 25.79 1,121.03 14.33 85.976 27.32 1,174.43 13.91 117,079 26.35 1.542.52 15.63 90.774 25.70 1,166.45	July 11	17.95 18.37 18.96	57.96 57.69 59.38 67.39	3,312,36 1,508,77 1,555,78 6,525,02	Date 1907	Per cent Copper	Per cen Igon	Dry wei	Price per ton	Net tota smelter Settlemen
13. 49 112,642 25.54 1,438.43 13.58 79.462 28.89 1,028.63 13.16 81,991 24.93 1,022.02 12.78 91,047 24.04 1,094.35	MOUNTAIN COP Wet Date, Net	PER (assay Cop.				77		ight lbs.		3
13.40 163.230 25.66 2.694.24 13.02 62.469 25.05 782.42 13.40 84.580 26.11 1,104.19 12.06 56.158 22.91 746.38 12.75 82.868 25.45 1,052.18 12.78 41.777 26.09 544.98	1906. Wt. Aug. 4. 70,313 Sept. 25. 71,881 Sept. 25. 55,560 Sept. 26. 35,315 Oct. 9. 69,970	P. C. 23.93 20.47 20.45 16.29 20.4	ton. F 69.69 63.74 63.67 49.84 67.81	1,910.90	Sept. 3. Sept. 6. Sept. 6. Sept. 9.	.14.94 .17.22 .47.89 .72.50 .14.94 .17.22	20.9 19.2 8.3 20.9 19.2	57,040 83,477 10,985 1,050 57,040 83,477	\$41.23 47.07 139.54 212.78 42.23 49.07	\$ 959.61 1653.33 680.09 104.43 988.18 1736.80
13.26 96.107 28.50 1,869.52 13.22 37,441 32.56 772.34 14.81 48.976 36.55 895.04	Oct. 10	20.66 19.41 19.19 20.24	69.70 67.91 67.09 74.81	1,078.33 1,725.99 3,490.40 2,036.61	the cop	l be n	values		ada-D	ouglas
were all made prior to the acqui- n of the property by Messrs. Orem associates and the organization of present company. Following	Jan. 9 107,244 Feb. 20 50,239 March 16 145,416	21.92 19.69 21.67 20.00 22.33	88.60 80,46 92.17 82.28 88.33	4,002.53 1,752.49 5,862.25 3,514.92 2,430.56	ores als of iron, ter exce ing com silicious	makin ptiona panies	g the p	roduct uable t se as fl	of a contract of the	harac- smelt- for the
latter event, a campaign of elopment and improvement was ned. At first a thorough prospect- of the ground was undertaken and	May 4. 224,310 May 14. 124,564 June 17. 196,845 June 11. 60,242	21.4 23.64 21.6 19.27	86.18 94.39 79.68 71.43	8,255,90 5,024,44 6,601,44 1,811,62	camps. Douglas	For ores :	this reare in ad a pr	deman	he No	evada-
result at all points of attack were atisfactory that the directors con- ed to commence the driving of a manent working tunnel; the instal-	TACOMA SMELT 1906, April 17 58,723	Dry. 24.52		2,188.61	smelters erable d matter nage. A	etail, of ava A thor	it is allable ough	well to and prexaminate	go in robabl ation	to the e ton- of the

permanent working tunnel; the instal-	
lation of modern power and mine equipment with the view of operating upon an extensive scale. Before the power line was completed, however,	UNITED STATES SMELTING COM-
an option on the Ludwig mine was obtained by A. J. Orem & Co. and assigned to the Nevada-Douglas compa-	Net Per cent Oz. Wght. Wet Gold
ny, thus adding materially to the value and importance of the company's holdings. The purchase added another	Per Silly Per Silly Da

e Bully 26.16 7.65 2.5 40.02 56.67 871.68 5 6 6 1	operty contained 10,000,000 tons averaging 3½ per cent copper. and examination was made by ennings in February; this time,
Net Per cent Wgth. Cop. per ton Rets. May 2533,857 22.39 June 1335,235 20.95 76.43 4,435.69 June 736,973 30.645 Aug. 433,785 19,365 50.32 850.14 Aug. 1634,504 20.865 55.76 961.98 Aug. 1835,133 21.185 57.10 1,003.02 Aug. 1835,133 21.185 57.10 1,003.02 ores.	e purpose of looking into the urgical side of the proposition.
Net Per cent Net Val. Net Wgth. Cop. per ton Rets. June 1335,235 22,39 June 1335,235 29,95 76,43 4,435,69 the a6 Aug. 433,785 19,365 50,32 850,14 Aug. 1634,504 20,865 55,76 961,98 Aug. 1835,233 21,185 57,10 1,003,02 Aug. 1835,233 21,185 57,10 1,003,02 Aug. 20 22,241 21,055 56,15 932,22 ores.	bmitted a series of experiments,
Aug. 22 31,343 20,62 51.69 810.13 ing a ores in fuel at 1.54 Aug. 31 35,454 17.54 45.33 803.35 Aug. 31 34,131 17.225 43.73 746.40 Sept. 6 33,700 19.515 52.15 880.64 Sept. 8 32,861 18.94 49.11 817.61 Sept. 8 32,861 18.94 49.11 817.61 Nov. 24 85,650 18.44 60.64 2.597.17 Nov. 24 85,650 18.74 62.21 1,698.53 Nov. 28 51,020 16.855 55.62 1,419.07 -Dec. 1 61,573 17.59 55.68 1,714.45 Dec. 7 61,772 16.89 55.79 1,723.37	n a report to the management, the sulphide ore to be self-flux-d capable of treatment without dition of iron or lime; also that s which contain an excess of iron les will furnish sulphur enough the the copper of the oxidized he found no difficulty in smelt-mixture of sulphide and oxidized a blast furnaces, using coke for a dore raw. He adds that it can elted in reverberatory furnaces, crude California oil for fuel, if ant sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide. The sulphide ore is used to act as cing agent for iron oxide.

	******			Sept. 8	32,861	18.5	34 4	19,11	817.61	conficient coulpide one to wood to not on
	Vet. cop				51,521		755 5	5.28	1.424.10	sufficient sulphide ore is used to act as
Wt.	P. C. 1	er ton.	returns	Nov. 24				0.64	2,597.17	a reducing agent for iron oxide.
72,09	8 18.07	40.65	1,465.45		54,087			2.21	1,693.53	In August last Mr. Jennings made a
63.84		30.36	979.27		51,020			55.62	1,419.07	
52,25		31.55	824.41		61.573			5.68	1,714,45	third examination of the main division
61,410		28.89	887.20	Dec. 1						and confirmed his estimates on a pre-
60.27				Dec. 7	61,772	16.8	59 5	5.79	1,723.37	vious occasion, by "aying: "I see noth-
		48.68	1,469.55				THE RESERVE OF			
58,19		22.80	663.68	770	CATT COM	**** ****	70 00	TOAN	137	ing from my recent examinations to
54.98		20.39	560.59	0.1	TAH SM	ELFL	VG CO	MPAN	X.	change my opinion as to the amount or;
61,57		43.43	1,339.12	-	1 Pel 1	- Ind	. 0 .	nec :	20.00	value of the ore in the Nevada-Doug-
46,37		43.75	1,014.55	144 944	00	Pe	Of Dr	Pri	6 = _	les mine; the work, as far as it has
59,68	6 - 18.12	42.19	1,259.04	Dat 1907	07	Ir er	or	73.	tte le	
(op. dry	A	1	27	500	on ce	100	to	le to	been done, is satisfactory in the
	per cen	t		CD.	cen	1 5	00	=	Settlem Settlem	amount and quantity of the ore dis-
58,04	1 24.37	63.89	1,853,27		75.00	-	===	1	0 7	closed, and if it is continued as now
58,48		60,00	1,784.65	falls on	1 - 1	100000	ligh	May 15	5 7	planned, the amount of ore in sight six
61,42		60.81	1,867.83		1 3		. 4	3.74	20 -	
38.95		60.78	1,183.76	1	1		1	1		months from now will be very great."
40,20		72.28	and the second second	Tasles 10	10.70	20.70		-		In a report under the date of Feb. 18,
39,43		67.21				16.50	****	***	******	1907, several months before the Lud-
40,37						15.40	17,190	\$46.21	\$1450.69	wig was acquired by the Nevada-
		79.11	1,597.69	July 24		15.50		1334	Talled mark	Douglas company, Mr. Jennings, who
39,61		64.93	1,286.11			15.20	51,567	32.84	709.73	
38,44		61.34	1,180.24	July 25	11.86	17.00				had conducted an exhaustive examina-
38,44			1,162.98	July 25	12.00	16.30	87,885	37.03	1390.94	tion, reported that the mine contained
39,09		59.50	1,163.03	Aug. 3	12.17	17.30	13 No. 1		- D - 17	20,000 tons of 17 per cent ore; 5,000 tons
38,27		64.27	1,229.98	Aug. 3		18.00	85,309	37.58	1374.85	
52,99		62.74	1,662.69	Aug. 4		17.50				of 6 per cent ore and a large but un-
56,88	1 22.96	60.86		Aug. 4		17.60	81,099	48.97	1688.83	known amount of 2% per cent ore.
58,06		55.76	1,618.94		14.97	2000	Oxyone	-	4.000	Since acquiring the Ludwig, however,
24.14				Aug. 4	14 95		91,378	48.00	1857.13	the company has devoted a great deal
117,52		54.71	3.213.36	Aug. 23	12 45	15.00	01,010	46150	2001110	of energy towards the development of
105,549		66.54	3.511.92	Aug. 23	19 96	16.00	42,301	33.31	589.82	
	20120	00101	Oyourion	23.00		10.00	22,001	00.01	000.04	this division, and with the most flat-
		de la companya	of the party of			100000		STATE OF THE PARTY.	Jan Barrier	tering results-results that have far
		Trip Library	Name of Street, or other Persons	A COLUMN TO A STATE OF THE PARTY OF THE PART	- A - A - A - A - A - A - A - A - A - A	250000		San	100	awarded the awardentians of avery of



"Jewel Box," Nevada Douglas Property. Ore twentyfeet wide. General average 7.22 per cent copper,

west. He has been a resident of Utah for the past nineteen years, and cer-

Makes a Good Start.

years of age. He received his primary ed the Edinburgh university, that cradle of great scholars. While at the university young Forrester made a spe-

Why He Came to America.

Rio Grande Western Railroad com-pany. Because of his great activity along scientific lines, and because of what he has already accomplished, in mining, mine examinations, extensive ing and equipping of the Sunnyside especially in the development of coal equipment and installation. Mr. Forres- mines in Carbon county, now owned mines, Mr. Forrester is regarded as one ter has had extensive experience in and operated so extensively by the Utah of the leading scientists of the entire taking hold of properties that had been Fuel company. In 1902 he had charge on a paying basis. Certainly this is an Somerset mine in Colorado for George important factor in the mining of coal W. Kramer of Denver. tainly he has made his impress on the industrial development of the state in installation of water power plants is installation of water power plants is another line of work to which Mr. For-A brief sketch of this man should be assistants are especially well equipped geological surveys in southwestrn Colo-

ROBERT FORRESTER

Gets Busy in Utah.

splendid opportunities for the study of practical mining. He entered actively into the profession of mining by entering the mines in the neighborhood of charge of the opening of the Castle West Calder, where he worked in all Gate mines in Carbon county, mines

It seems that mining was the work Mr. Forrester before he had been long of practically every important scientiwas the surface further his work along satisfaction to the government.

National Geographical society, the this line. He came to America in 1887. But the position of mine inspector for American association for the Advance-

good one, hampered this man in the work he had cut out for himself. He retired from the office in 1894 to open and equip the Diamond Coal & Coke company's great mine at Diamondville, Wyoming. During this same period he Scotland has furnished to the world a royal galaxy of scientific men. She has furnished to Utah a wideawake man and a most useful citizen in the person of Robert Forrester, geologist for the Utah Fuel company and for the Utah Fuel company and for the Utah Fuel company and for the on State street. With the aid of his on State street. With the aid of his on State street.

improperly handled and putting them of the opening and equipping of the

Makes Extensive Surveys.

In 1904, 1905 and 1906 Mr. Forrester rester devotes special attention. His engaged in extensive topographical and of general interest. He was born in Balmalcolm, parish of King's Kettle, County of Fife, Scotland, in 1864, on the Secondary well equipped assistants are especially well equipped assistants are especially well equipped rado and the northwestern part of New Mexico. A great deal of time was expended on this work, and information 22d of November, so that he is but 43 and study of mining as done in this of the utmost value concerning that country. From Missouri he removed to wild and sparsely settled country was education in the common school and Kansas, and from Kansas he came to the fruits of his work. In 1907 he enthe science classes of West Calder, Utah. He arrived in this state about gaged in similar topographical and Midlothian, Scotland. Later he attend- the Christmas holidays, 1888. Utah. One result of these surveys is that Mr. Forrester has acquired a His first work in this state was for knowledge of the coal fields of the cialty of testing explosives, and made the Pleasant Valley Coal company, and west that is second to that of no other a record along this line. In addition to for the coal department of the Utah man in the west, a knowledge that is of this scientific studies in school, he had Central railway. He served in the ca- inestimable value to him and his em-

The growth of his business in recent

In Touch With the World. Perhaps there is not a finer scientific departments of the mines, and in this that are still wonderfully productive library anywhere in the west than the way added practical experience to his sources of great income to the owner, one Mr. Forrester has accumulated university work. the Utah Fuel 20mpany.

Naturally, Uncle Sam, who is on the scientific lines. In addition to this he constant lookout for talent, discovered has been invited to become a member Mr. Forrester cut out for himself from his youth. How closely he has adhered to his ideal let the record show. His tor, a position he held for three years, others, he holds membership in the object in coming to the United States with honor to himself and with entire Forestry Association of America, the National Geographical society, the He first made a study of coal mining the general government, although a ment of Science, the Geological Society of Edinburgh, the American Institute of Mining, the Mining Engineers of the United States, the Colorado Scientific society, and in addition to these the Denver Athletic club, the Alta club and the Commercial club of this city.

Loves to Fish and Hunt.

For recreation Mr. Forrester fishes and hunts. He is an acknowledged fisher. Few in this state know better where to find the good fishing streams, and few know better how to round up the speckled beauties and land them after the good fishing grounds are located. He is also a successful hunter. Of course, the knowledge he acquired in his topographical and geological work gives him advantages that are not to be ignored when it comes to fishing and hunting.

Books a Big Hobby.

Naturally it would be supposed that leading such an active outdoor life a man would have little time or inclina-tion for books, especially when that man was as busy as Mr. Forrester has been since his coming to Utah. And if books exercised any attraction at all for such a man it would be supposed that they would be scientific boooks wholly. This is not the case with this He is a passionate lover of a good book, and his taste is as wide as the realm of literature. His nationality crops out strong in the fact that in his library are to be found 350 separate and distinct editions of Bobby Burns Many valuable works have found their way into his library, first editions in many cases; and not many men who have led such an active life can talk more interestingly of his pets than can Robert Forrester of his books.

His Anchor to the Windward.

The Uintah country has exercised powerful charms over Mr. Forrester since he became acquainted with that land of rich promise. He is identified with the Uintah Railway company and with the Gilson Asphaltum company. He is confident that some day he will be wealthy as the result of his invest-

ments in this country.

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